

*If you are using a printed copy of this procedure, and not the on-screen version, then you **MUST** make sure the dates at the bottom of the printed copy and the on-screen version match. The on-screen version of the Collider-Accelerator Department Procedure is the Official Version. Hard copies of all signed, official, C-A Operating Procedures are kept on file in the C-A ESHQ Training Office, Bldg. 911A.*

## C-A OPERATIONS PROCEDURES MANUAL

### ATTACHMENT

#### 4.16.k C2/C4 Access Control Test

Text Pages 2 through 4

C-A OPM Procedures in which this Attachment is used.		
4.16		

### Hand Processed Changes

<u>HPC No.</u>	<u>Date</u>	<u>Page Nos.</u>	<u>Initials</u>
_____	_____	_____	_____
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Approved: \_\_\_\_\_  
 Collider-Accelerator Department Chairman \_\_\_\_\_ Date \_\_\_\_\_

N. Williams

### C2/C4 Access Control Test

PERIOD \_\_\_\_\_ TO \_\_\_\_\_

#### ACCESS CONTROLS GROUP

PRINT NAME	LIFE NUMBER

#### PRECAUTIONS

Working Hot Permit ☐ All Radiation Sources LOTO ☐

#### SUPPORTING DOCUMENTS

LOGIC DIAGRAM TITLE	LOGIC DIAGRAM NUMBER	REVISION
C2/C4 Secondary Beam Logic	C4.LGC (D09-E2481-2)	E 9-27-94

SCHEMATIC TITLE	SCHEMATIC NUMBER	REVISION
C2/C4 Security Logic	C2C4 SECU (D09-E1669-5)	K 7-14-94

## C2/C4 ACCESS CONTROL TEST

### Complete Pages 2 and 3 INPUT TESTING

INITIAL and DATE 1 through 9 for the correct indication of each input CONDITION  
by observation of the following relays for BOTH input states:

CONDITION	RELAY	RELAY ON (Condition is TRUE) Initial	RELAY OFF (Condition is NOT TRUE) Initial	DATE
1. SEB/C on Controlled Access	3795K2			
2. SEB/C Beam Secured	3795K3			
3. C2D2/D1 Current Comp. OK	3795K5			
4. C2 Gate Key Captive	3795K6			
5. NMC Rad Mon OK	3795K9			
6. C2D2 P.S. Off	3795K4			
7. C2Q1 P.S. Off	3795K11			
8. C2Q2 P.S. Off	3795K12			
9. C2 Exp's Gate Reset	3795K13			

### OUTPUT TESTING

INITIAL and DATE 1 through 3 for the correct indication of each output CONDITION of observation of the following relays  
for BOTH output states:

CONDITION	RELAY	RELAY ENERGIZED (Condition is TRUE) Initial	RELAY DE-ENERGIZED (Condition is NOT TRUE) Initial	DATE
1. C2 Intlk. On C Primary Clear                      23MK8	3795A6			
2. C2D2 Intlk. Clear	3795 B14			
3. C2Q1, Q2 Intlk. Clear	3795 A7			

## LOGIC TESTING

INITIAL and DATE 1 through 7. Check by forcing each contact ON and OFF so that the listed relay goes ON and OFF. The C2/C4 Secondary Beam Security schematic indicates which contact controls which relay.

RELAY	CONTACT ON (Relay ON) Initial	CONTACT OFF (Relay OFF) Initial	DATE
1. 3795 A6			
2. 3795 A7			
3. 3795 K7			
4. 3795 B14			
5. 3795 K10			
6. 3795 K14			
7. 3795 K1			